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Docket No.: 6945.002.00-US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Customer No: 30827

J. K. KELLY et al.

Confirmation No: 3670

Application No.: 09/662,492

Group Art Unit: 3625

Filed: September 15, 2000

Examiner: Matthew GART

For: **SYSTEM AND METHOD OF PROVIDING
AGRICULTURAL PESTICIDE
INFORMATION AND FACILITATING SALES
OF PESTICIDE PRODUCTS**

RESPONSE TO REQUIREMENT FOR INFORMATION UNDER 37 CFR 1.105

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

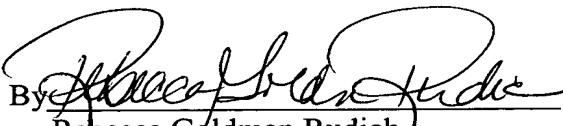
In response to the U.S. Patent Office Communication dated January 27, 2006, Applicant respectfully submits copies of pages from Greenbook® Crop Protection Reference (2005). In the interest of providing all available information to the U.S. Patent Office, Applicant submits this reference. To the best of Applicant's knowledge, however, the submitted pages are not relevant to the examination of the above-identified application. Applicant only submits these pages to comply with the Examiner's request and to advance prosecution of the application. The Applicant is not aware of any technical information concerning methods, previous to the filing of the present application, used by pesticide users for selecting pesticides for use on their property and crops, and then for purchasing the selected pesticide products.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

Dated: July 26, 2006

Respectfully submitted,

By 
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Attorneys for Applicants

CPR®

2005



Greenbook®

Crop Protection Reference

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Vance

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Brand Name Index

Products included in CPR are listed in this section alphabetically by their brand name. The name of the company follows the brand name in parentheses.

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| | |
|------|------------------------|
| (A) | Adjuvants |
| (AN) | Animal Control Product |
| (B) | Biological Control |
| (FE) | Fertilizer |
| (FU) | Fungicide |
| (H) | Herbicide |

| | |
|--------|-------------------------|
| (A) | Herbicide Antidote |
| (POST) | Herbicide Postemergence |
| (PRE) | Herbicide Preemergence |

| | |
|-------|---|
| (PPL) | Herbicide, Preplant/Preplant Incorporated |
| (IGR) | Insect Growth Regulator |
| (I) | Insecticide |
| (M) | Miticide |

| | |
|-------|------------------------|
| (MF) | Micronutrient |
| (N) | Nematicide |
| (O) | Other |
| (PGR) | Plant Growth Regulator |
| (AN) | Rodenticide |
| (SP) | Seed Protectant |
| (SF) | Soil Fumigant |

BASF CORPORATION

Agricultural Products
U.S. Crop Protection Products
26 Davis Drive,
P.O. Box 13528
Research Triangle Park,
NC 27709-3528
For Emergencies Contact:
CHEMTRIC (800) 424-9300
BASF (800) 832-HELP
CALL 24 HOURS A DAY
Website:
<http://www.bASF.com/agproducts>

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BAYER CROPSCIENCE

Crop Protection
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, NC 27709
(919) 549-2000
www.bayercropscience.com
Product Information Number:
800-842-8020
For emergencies: 800-414-0244 (24 hours)

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CROMPTON CROP PROTECTION

199 Benson Road
Middlebury, CT 06749
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For emergencies contact:
(203) 723-3670
Website:
<http://www.cromptoncorp.com/crop>

Common Name Index

In this index, products included in CPR are listed under the heading for the common name of their active ingredient. Combination products are listed only under the heading for their mixture of ingredients, not under the headers for the individual ingredients that make up the mixture.

Headings for mixtures are alphabetized under the ingredient that comes first in the alphabet, which is not necessarily the ingredient present in the highest concentration.

Common names that begin with a number, such as "2,4-D", are alphabetized under their number at the start of the listings, rather than under the first letter of their name.

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- *Telone II (Dow) p. 980
- *Telone II CA (Dow) p. 984

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Butoxyethyl Ester

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2,4-D Dimethylamine Salt

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2,4-D Dimethylamine Salt + Dicamba

Dimethylamine Salt

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- Double Up B+D (Helena) p. 1429

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- Campaign (Monsanto) p. 1775

2,4-D Triisopropanolamine Salt + Clopyralid Monoethanolamine Salt

- Curtail (Dow) p. 687

2,4-D Triisopropanolamine Salt + Picloram Triisopropanolamine Salt

- *Grazon P+D (Dow) p. 792
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* Restricted Use Only

A

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- *Harness (Monsanto) p. 1799
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- *Surpass 20G (Dow) p. 954
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- *Harness Xtra (Monsanto) p. 1811
- *Harness Xtra 5.6L (Monsanto) p. 1817
- *Keystone (Dow) p. 830
- *Keystone LA (Dow) p. 836

Acetochlor + Atrazine + Glyphosate Isopropylamine Salt

- *Field Master (Monsanto) p. 1794

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- Actigard 50WG (Syngenta) p. 2045

Acifluorfen Sodium Salt + Bentazon Sodium Salt + Sethoxydine

- Conclude Xact (BASF) p. 42

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- *Intro (Monsanto) p. 1824
- *Micro-Tech (Monsanto) p. 1846

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- *Laria (Monsanto) p. 1836

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- *Temik 15G Lock 'n Load (Bayer) p. 553
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- *Temik 15G NW Lock 'n Load (Bayer) p. 566

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Aminoethoxyvinylglycine

- see AVG

Asulam Sodium Salt

- Asulox (Bayer) p. 230

Asulam-sodium

- see under Asulam Sodium Salt

Atrazine

- *Aatrex 4L (Syngenta) p. 2021

- *Aatrex Nine-O (Syngenta) p. 2026

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- see under Acetochlor + Atrazine + Glyphosate Isopropylamine Salt

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Atrazine + Bentazon Sodium Salt

- *Laddok S-12 (Micro Flo) p. 1709

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- *Butril+Atrazine (Bayer) p. 297

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- *Banvel-K+Atrazine (Micro Flo) p. 1674

- *Marksman (BASF) p. 90

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- *G-Max Lite (BASF) p. 70

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 Fumigant
 Fungicide
 Fungicide, Preemergence

Fungicide, Preplant/Preplant Incorporated
 Herbicide
 Herbicide Antidote
 Herbicide, Postemergence
 Herbicide, Preemergence
 Herbicide, Preplant/Preplant Incorporated

Insect Growth Regulator
 Insecticide
 Insecticide, Preplant/Preplant Incorporated
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 Micronutrient
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Crop and Non-Crop Use Index

Products included in CPR are listed alphabetically under appropriate crop and non-crop headings. The headings under which products are listed were determined by CPR in cooperation with participating manufacturers. SLN registrations are not identified in this index. Refer to product container label for use in your area.

Crop and non-crop headings are grouped into the following categories:

- Agricultural Crops
- Aquatic
- Forestry
- Greenhouse
- IVM/Right Of Way
- Ornamental Plants and Sites
- Structural Pest Control
- Turf

Whenever more than 10 products are listed under a particular crop or non-crop heading, the products are grouped into broad product categories, then listed alphabetically within these categories:

- Fungicides
- Herbicides
- Insecticides (also includes insect growth regulators, miticides, and nematicides)
- Other (all other categories)

The letter code appearing with each product indicates to which pesticide category it belongs:

| | | | |
|-----------------------------|---|------------------------------|----------------------|
| (A) Adjuvants | (A) Herbicide Antidote | (I) Insecticide | (AN) Rodenticide |
| (AN) Animal Control Product | (POST) Herbicide, Postemergence | (M) Miticide | (SP) Seed Protectant |
| (B) Biological Control | (PRE) Herbicide, Preemergence | (MF) Micronutrient | (SF) Soil Fumigant |
| (FE) Fertilizer | (PPL) Herbicide, Preplant/ Preplant Incorporated | (N) Nematicide | |
| (FU) Fungicide | (IGR) Insect Growth Regulator | (O) Other | |
| (H) Herbicide | | (PGR) Plant Growth Regulator | |

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- Prism (Valent) (H), (POS) p. 2577
- Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462
- Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
- Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927
- Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944
- Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959
- Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971
- Select 2 EC (Valent) (H), (POS) p. 2620
- Spin-Aid (Bayer) (H), (POS) p. 529
- Touchdown (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2411
- Touchdown HiTech (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2433
- Touchdown Total (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2448

Other

- Coron 28-0-0 (AG) (Helena) (MF) p. 1428
- Ele-Max Foliar Phosphite 0-28-26 (Helena) (MF) p. 1431
- Ele-Max Foliar Phosphite 4-30-20 (Helena) (MF) p. 1434
- Ele-Max Nutrient Concentrate 11-8-5 (Helena) (MF) p. 1436
- Ele-Max Super Foliar Phosphite 6-40-16 (Helena) (MF) p. 1437
- Lepinox WDG (Certi) (I) p. 595
- KickStand PGR (Helena) (PGR) p. 1450
- ProGibb 4% (Valent) (PGR) p. 2587
- ProGibb Plus 2X (Valent) (PGR) p. 2595

Vegetables, Root (Including Leaves of)

Disease Control

- Aliette WDG (Bayer) (FU) p. 222
- Amistar (Syngenta) (FU) p. 2056
- Apron XL LS (Syngenta) (FU), (SP) p. 2066
- Bravo Ultrex (Syngenta) (FU) p. 2104
- Bravo Weather Stik (Syngenta) (FU) p. 2112
- Cabrio EG (BASF) (FU) p. 19
- Dithane F-45 Rainshield (Dow) (FU) p. 694
- Dithane M45 (Dow) (FU), (SP) p. 699
- Endura (BASF) (FU) p. 55
- Flint (Bayer) (FU) p. 354
- Fosphite (JH Biotech) (FU) p. 1529
- Reason 500 SC (Bayer) (FU) p. 443
- Iprodione 4L AG (Micro Flo) (FU) p. 1701
- Kumulus DF (Micro Flo) (FU), (I), (M) p. 1705
- Lorsban 1SG (Dow) (FU), (I) p. 844
- Maxim 4FS (Syngenta) (FU), (SP) p. 2272
- Mertect 340-F (Syngenta) (FU), (PH) p. 2276
- M-Pede (Dow) (FU), (I), (M) p. 868
- Pristine (BASF) (FU) p. 118
- Quadris Flowlable (Syngenta) (FU) p. 2314
- Quadris Opti (Syngenta) (FU) p. 2324
- Reason 500 SC (Bayer) (FU) p. 443
- Ridomil Gold EC (Syngenta) (FU) p. 2344
- Ridomil Gold GR (Syngenta) (FU) p. 2356
- Ridomil Gold MZ (Syngenta) (FU) p. 2360

Ridomil Gold/Bravo (Syngenta) (FU) p. 2365

Ridomil Gold/Copper (Syngenta) (FU) p. 2372

Rovral 4 Flowlable (Bayer) (FU) p. 455

Scala SC (Bayer) (FU) p. 462

Switch 62.5WG (Syngenta) (FU) p. 2401

*Telone C-17 (Dow) (FU), (I), (N), (SF) p. 962

*Telone C-17 CA (Dow) (FU), (I), (N), (SF) p. 966

*Telone C-35 (Dow) (FU), (I), (N) p. 970

*Telone C-35 CA (Dow) (FU), (I), (N), (SF) p. 974

*Telone II (Dow) (FU), (I), (N), (SF) p. 980

*Telone II CA (Dow) (FU), (I), (N), (SF) p. 984

Thiolux Jet (Syngenta) (FU), (I), (MF), (M) p. 2403

Thionex 3EC (MANA) (I), (M) p. 1621

Thionex 50W (MANA) (I), (M) p. 1630

Trigard (Syngenta) (I) p. 2463

*Vydare L (DuPont) (I), (M), (N), (PGR) p. 1311

XenTari (Valent) (I) p. 2642

Weed Control

- Arrow 2 EC (MANA) (H), (POS) p. 1538
- Assure II (DuPont) (H), (POS), (PPL) p. 1077
- Bayonet (Helena) (H), (POS), (PRE), (PPL) p. 1419
- Betamix (Bayer) (H), (POS) p. 252
- Betanex (Bayer) (H), (POS) p. 254
- Dual MAGNUM (Syngenta) (H), (POS), (PRE), (PPL) p. 2178
- Eptek 7EC (Drexel) (H), (POS), (PRE), (PPL) p. 1013
- Fusilade DX (Syngenta) (H), (POS) p. 2226
- Galigan 2E (MANA) (H), (POS), (PRE), (PPL), (PGR) p. 1579
- Glyphomax (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 728
- Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743
- Goal 2XL (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 760
- GoalTender (Dow) (H), (POS), (PRE), (PPL) p. 777
- *Gramoxone Max (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2237
- Nortron SC (Bayer) (H), (POS), (PRE), (PPL) p. 406
- Roast (Micro Flo) (H), (POS), (PGR) p. 1716
- Prism (Valent) (H), (POS) p. 2577
- Progress (Bayer) (H), (POS) p. 427
- Pyramin DF (Micro Flo) (H), (POS), (PRE), (PPL) p. 1728
- Raptor (BASF) (H), (POS) p. 175
- Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462
- Reglone (Syngenta) (HA), (H), (POS), (PPL) p. 2341
- Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
- Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927
- Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944
- Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959
- Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971
- Select 2 EC (Valent) (H), (POS) p. 2620
- Sencor 4 (Bayer) (H), (POS), (PRE), (PPL) p. 466
- Sencor DF (Bayer) (H), (POS), (PRE), (PPL) p. 473
- Spin-Aid (Bayer) (H), (POS) p. 529
- Stinger (Dow) (H), (POS) p. 935
- Touchdown (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2411
- Touchdown HiTech (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2433
- Touchdown Total (Syngenta) (HA), (H), (POS), (PRE), (PPL), (PGR) p. 2448
- UpBeet (DuPont) (H), (POS) p. 1281

Other

- Coron 12-0-12 (Ag) (Helena) (MF) p. 1427
- Ele-Max Foliar Phosphite 0-28-26 (Helena) (MF) p. 1431
- Ele-Max Foliar Phosphite 4-30-20 (Helena) (MF) p. 1434
- Ele-Max Nutrient Concentrate 11-8-5 (Helena) (MF) p. 1436
- Proclaim (Syngenta) (I) p. 2295
- *Pounce 25 WP (FMC) (I) p. 1386
- *Pounce 3.2 EC (FMC) (I) p. 1391
- *Proclaim (Syngenta) (I) p. 2310
- *Pounce 1.6 Flowlable (Bayer) (I) p. 430
- *Renounce 20WP (Bayer) (I) p. 448
- Sevin 4F (Bayer) (AN), (I), (M) p. 496
- Sevin 80S (Bayer) (AN), (I), (M) p. 506
- Sevin XLR Plus (Bayer) (AN), (I), (M) p. 516
- SpinTor 2SC (Dow) (I) p. 913
- Success (Dow) (I) p. 943
- *Telone C-17 (Dow) (FU), (I), (N), (SF) p. 962
- *Telone C-17 CA (Dow) (FU), (I), (N), (SF) p. 966
- *Telone C-35 (Dow) (FU), (I), (N) p. 970
- *Telone C-35 CA (Dow) (FU), (I), (N), (SF) p. 974
- *Telone II (Dow) (FU), (I), (N), (SF) p. 980
- *Telone II CA (Dow) (FU), (I), (N), (SF) p. 984
- *Temik 15G (Bayer) (I), (M), (N) p. 533
- *Temik 15G Lock 'n Load (Bayer) (I), (M), (N) p. 553

Vegetables, Tuberous and Corm (Including Leaves of)

Disease Control

- Acrobat 50WP (BASF) (FU) p. 3
- Amistar (Syngenta) (FU) p. 2056
- Apron XL LS (Syngenta) (FU), (SP) p. 2066
- Bravo Ultrex (Syngenta) (FU) p. 2104
- Bravo Weather Stik (Syngenta) (FU) p. 2112
- Bravo Zn (Syngenta) (FU), (MF) p. 2119

Weed Control

- Banvel (Micro Flo) (H), (POS), (PRE), (PPL) p. 1658
 Banvel+2,4-D (Micro Flo) (H), (POS), (PPL) p. 1668
 Bromox - MCPA 2 - 2 (Micro Flo) (H), (POS) p. 1684
 Bronate Advanced (Bayer) (H), (POS) p. 257
 Buctril (Bayer) (H), (POS), (PRE), (PPL) p. 263
 Buctril 4 Cereals (Bayer) (H), (POS) p. 276
 Buctril 4EC (Bayer) (H), (POS), (PRE), (PPL) p. 282
 Clarity (BASF) (H), (POS), (PRE), (PPL) p. 33
 Olympus 70% (Bayer) (H), (POS) p. 412
 Weedmaster (BASF) (H), (POS), (PPL) p. 203
 Wildcard Xtra (Helena) (H), (POS) p. 1489

Wheat, Spring Seeded (*Triticum spp.*) Disease Control

- Dividend Extreme (Syngenta) (FU), (SP) p. 2155

Insect Control

- *Di-Syston 8 (Bayer) (I), (M) p. 322
Weed Control
 Ally XP (DuPont) (H), (POS) p. 1060
 Amber (Syngenta) (H), (POS), (PRE), (PPL) p. 2051
 Banvel (Micro Flo) (H), (POS), (PRE), (PPL) p. 1658
 Banvel+2,4-D (Micro Flo) (H), (POS), (PPL) p. 1668
 Barrage HF (Helena) (H), (POS), (PRE), (PPL) p. 1414
 Bayonet (Helena) (H), (POS), (PRE), (PPL) p. 1419
 Bromox - MCPA 2 - 2 (Micro Flo) (H), (POS) p. 1684
 Bronate Advanced (Bayer) (H), (POS) p. 257
 Buctril (Bayer) (H), (POS), (PRE), (PPL) p. 263
 Buctril 4 Cereals (Bayer) (H), (POS) p. 276
 Buctril 4EC (Bayer) (H), (POS), (PRE), (PPL) p. 282
 Clarity (BASF) (H), (POS), (PRE), (PPL) p. 33
 Discover (Syngenta) (H), (POS) p. 2145
 Discover NG (Syngenta) (H), (POS) p. 2150
 Express XP (DuPont) (H), (POS) p. 1155
 Finesse (DuPont) (H), (POS), (PRE), (PPL) p. 1158
 Glean FC (DuPont) (H), (POS), (PRE) p. 1164
 HardBall (Helena) (H), (POS), (PRE), (PPL) p. 1443
 Harmony Extra XP (DuPont) (H), (POS), (PRE), (PPL) p. 1169
 Harmony GT XP (DuPont) (H), (POS), (PRE), (PPL) p. 1174
 Maverick (Monsanto) (H), (POS), (PRE) p. 1842
 Olympus 70% (Bayer) (H), (POS) p. 412
 Opti-Amine (Helena) (H), (POS), (PRE), (PPL) p. 1458
 Peak CustomPak (Syngenta) (H), (POS), (PRE) p. 2287
 Puma IEC LF (Bayer) (H), (POS) p. 440
 Rave (Syngenta) (H), (POS) p. 2333
 Silverado Wild Oat (Bayer) (H), (POS) p. 526
 Starane+Salvo (Dow) (H), (POS) p. 929
 Starane+Sword (Dow) (H), (POS) p. 932
 *Tordon 22K (Dow) (H), (POS) p. 993
 Unison (Helena) (H), (POS), (PRE), (PPL) p. 1483
 Weedmaster (BASF) (H), (POS), (PPL) p. 203
 WideMatch (Dow) (H), (POS), (PPL) p. 1004
 Wildcard Xtra (Helena) (H), (POS) p. 1489

Other

- Cerone (Bayer) (PGR) p. 304
 KickStand PGR (Helena) (PGR) p. 1450

Y**Yam, True (*Dioscorea spp.*) Disease Control**

- Amistar (Syngenta) (FU) p. 2056
 Apron XL LS (Syngenta) (FU), (SP) p. 2066
 Fosphite (JH Biotech) (FU) p. 1529
 Headline (BASF) (FU) p. 80
 Maxim 4FS (Syngenta) (FU), (SP) p. 2272
 M-Pede (Dow) (I), (M) p. 868

Weed Control

- Quadris Flowable (Syngenta) (FU) p. 2314
 Reason 500 SC (Bayer) (FU) p. 443
 Ridomil Gold EC (Syngenta) (FU) p. 2344
 Scala SC (Bayer) (FU) p. 462
 Trilogy (Certis) (I), (M) p. 600
Insect Control
 Actara (Syngenta) (I) p. 2041
 Admire 2 Flowable (Bayer) (I) p. 214
 Deliver (Certis) (I) p. 588
 Entrust (Dow) (I) p. 706
 Fulfill (Syngenta) (I) p. 2222
 GF-120 Naturalyte Fruit Fly Bait (Dow) (I) p. 724
 GF-120 NF Naturalyte Fruit Fly Bait (Dow) (I) p. 726
 Javelin WG (Certis) (I) p. 592
 Neemix 4.5 (Certis) (I) p. 598
 Platinum (Syngenta) (I) p. 2295
 Provado 1.6 Flowable (Bayer) (I) p. 430
 SpinTor 2SC (Dow) (I) p. 913
 Success (Dow) (I) p. 943
 *Vydare L (DuPont) (I), (M), (N), (PGR) p. 1311

Weed Control

- Arrow 2 EC (MANA) (H), (POS) p. 1538
 Command 3ME (FMC) (H), (POS), (PRE), (PPL) p. 1355
 Fusilade DX (Syngenta) (H), (POS) p. 2226
 Glyphomax (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 728
 Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743
 *Gramoxone Max (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2237
 Poast (Micro Flo) (H), (POS), (PGR) p. 1716
 Prism (Valent) (H), (POS) p. 2577
 Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462
 Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
 Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927
 Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944
 Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959
 Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971
 RT Master II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1986
 Touchdown (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2411
 Touchdown HiTech (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2433
 Touchdown Total (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2448

Other

- KickStand PGR (Helena) (PGR) p. 1450

Youngberry (*Rubus spp.*) Disease Control

- Abound Flowable (Syngenta) (FU), (PH) p. 2031
 Fosphite (JH Biotech) (FU) p. 1529
 Nova 40W (Dow) (FU) p. 873
 Rally 40W (AK, ID, MT, NV, OR, UT, WA, WY) (Dow) (FU) p. 892
 Rally 40WSP (AR, CA, HI) (Dow) (FU) p. 897
 Trilogy (Certis) (I), (M) p. 600

Insect Control

- *Asana XL (DuPont) (I) p. 1067
 *Brigade WSB (FMC) (I), (M) p. 1337
 *Capture 2 EC-CAL (FMC) (I), (M) p. 1342
 *Capture 2EC (FMC) (I), (M) p. 1347
 Confirm 2F (Dow) (I) p. 678
 *Fanfare 2EC (MANA) (I), (M) p. 1572
 Neemix 4.5 (Certis) (I) p. 598

Weed Control

- Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743
 Poast (Micro Flo) (H), (POS), (PGR) p. 1716
 Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462
 Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
 Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927
 Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944
 Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959
 Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971
 RT Master II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1986
 Touchdown (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2411

- Sinbar (DuPont) (H), (POS), (PRE), (PPL) p. 1244
 Touchdown (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2411
 Touchdown HiTech (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2433

- Touchdown Total (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2448
Other
 KickStand PGR (Helena) (PGR) p. 1450

AQUATIC**A****Aquatic Sites, Edges and Dry Bottoms****Weed Control**

- AquaMaster (Monsanto) (H), (POS), (PGR) p. 1755
 Campaign (Monsanto) (H), (POS) p. 1775
 Glyphomax (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 728
 Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743
 Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462

- Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
 Roundup Pro (Monsanto) (H), (POS), (PGR) p. 1889
 Roundup PRO Concentrate (Monsanto) (H), (POS), (PGR) p. 1902

- Roundup ProDry (Monsanto) (H), (POS), (PGR) p. 1914

- Roundup UltraDry (Monsanto) (H), (POS), (PGR) p. 1927

- Roundup UltraMAX II (Monsanto) (H), (POS), (PGR) p. 1944

- Roundup UltraMAX RT (Monsanto) (H), (POS), (PGR) p. 1959

- Roundup WeatherMAX (Monsanto) (H), (POS), (PGR) p. 1971

- RT Master II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1986

- Touchdown (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2411

- Touchdown CF (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2426

- Touchdown HiTech (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2433

- Touchdown Total (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2448

Aquatic Sites, Unspecified**Other**

- AccuQuest WM (Helena) (A) p. 1497

- Aero Dyne-Amic (Helena) (A) p. 1497

- Agri-Dex (Helena) (A) p. 1523

- Array (Intec Agro) (A) p. 1500

- Citru-Film (Helena) (A) p. 1500

- Cohera (Helena) (A) p. 1501

- Cohort DC (Helena) (A) p. 1502

- Drop Zone LC (Helena) (A) p. 1502

- Dyne-Amic (Helena) (A) p. 1504

- Grounded (Helena) (A) p. 1505

- Induce (Helena) (A) p. 1506

- Kinetic (Helena) (A) p. 1509

- Optima (Helena) (A) p. 1512

- Quest (Helena) (A) p. 1515

- Strike Zone MXD (Helena) (A) p. 1517

- Strike Zone PPS (Helena) (A) p. 1518

C**Canals/Ditches****Weed Control**

- AquaMaster (Monsanto) (H), (POS), (PGR) p. 1755

- Campaign (Monsanto) (H), (POS) p. 1775

- Glyphomax (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 728

- Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743

- HardBall (Helena) (H), (POS), (PRE), (PPL) p. 1443

- Opti-Amine (Helena) (H), (POS), (PRE), (PPL) p. 1458

- Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462

- Reglone (Syngenta) (H), (H), (POS), (PPL) p. 2341

- Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872

- Roundup PRO Concentrate (Monsanto) (H), (POS), (PGR) p. 1902

- Roundup ProDry (Monsanto) (H), (POS), (PGR) p. 1914

- Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927

- Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944

- Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959

- Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971

- RT Master II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1986

- Touchdown (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2411

- Touchdown CF (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2426

- Touchdown HiTech (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2433

- Touchdown Total (Syngenta) (H), (H), (POS), (PRE), (PPL), (PGR) p. 2448

Ditchbanks**Insect Control**

- Acephate 90SP (Micro Flo) (I), (SP) p. 1643

- Orthene 75 S (Valent) (I) p. 2552

- Orthene 97 (Valent) (I) p. 2563

- Sevin 4F (Bayer) (AN), (I), (M) p. 496

- Sevin 80S (Bayer) (AN), (I), (M) p. 506

- Sevin XLR Plus (Bayer) (AN), (I), (M) p. 516

Weed Control

- Banvel (Micro Flo) (H), (POS), (PRE), (PPL) p. 1658

- Campaign (Monsanto) (H), (POS) p. 1775

- Clarity (BASF) (H), (POS), (PRE), (PPL) p. 1533

- Crossbow (Dow) (H), (POS) p. 684

- Glyphomax (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 728

- Glyphomax Plus (Dow) (H), (POS), (PRE), (PPL), (PGR) p. 743

- HardBall (Helena) (H), (POS), (PRE), (PPL) p. 1443

Opti-Amine (Helena) (H), (POS), (PRE), (PPL) p. 1458
 PastureGard (Dow) (H), (POS) p. 878
 Rattler (Helena) (H), (POS), (PRE), (PPL), (PGR) p. 1462
 Remedy (Dow) (H) p. 903
 Roundup Original MAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1872
 Roundup Pro (Monsanto) (H), (POS), (PGR) p. 1889
 Roundup PRO Concentrate (Monsanto) (H), (POS), (PGR) p. 1902
 Roundup ProDry (Monsanto) (H), (POS), (PGR) p. 1914
 Roundup UltraDry (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1927
 Roundup UltraMAX II (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1944
 Roundup UltraMAX RT (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1959
 Roundup WeatherMAX (Monsanto) (H), (POS), (PRE), (PPL), (PGR) p. 1971
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Pest Use Index

Pests are alphabetized under the key word of their name, not the first word. For example, "Green Foxtail" will be found under "Foxtail, Green." This has been done in order to place related species entries mostly together and adjacent to the entry for their group.

Pest headings are grouped into the following categories:

Diseases

Insects, Mites, and Nematodes

Weeds

Products included in CPR are listed alphabetically under pest headings within these four pest categories.

Space limitations do not allow us to include in this book headings for all pest species. If a pest of importance to you does not have its own heading, please consult a more general heading to locate products that may control it. For example, use the general "Foxtail" heading for types of foxtail that do not have their own heading.

You may want to check the general headings even for pests that do have their own entry, since not all product labels list the individual species for which they are approved. Products indexed under individual species entries will also be indexed under their general heading or headings.

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Mode of Action Index

A general understanding of the mode of action, site of action and chemistry of pesticides has always been very helpful in developing a successful pest control program. More recently the problem of resistance has been increasing and its prevention or containment further emphasizes the need to study pesticides and how they work.

Mechanisms for resistance within a weed, insect or disease pathogen, while not always fully understood are generally directly related to the pesticide's chemistry (chemical family) and mode of action. To avoid resistance, scouting alternative management practices, crop rotation and limiting the application of pesticides with the same mode of action in the same season, field or crop is critical.

The following index lists the chemical family, how the product moves into the plant or insect and its mode of action. This information may be used together with local Extension/Crop consultant recommendations to develop a pest control program.

The entries of this two-part index have the following format:

In the first part, common names of products in this book are listed alphabetically. Under each common name, the name of its chemical family is shown in boldface type, followed by a description of its mode of action. This entry is followed by a list of all products in this book with that common name.

For mixtures, the common name entry shows the components in alphabetical order. This is followed first by the chemical family and mode of action for the first component, then by the same information for the second component, then by the information for any third component (and so on). The list of products comes last.

In the second part, brand names are listed alphabetically and the mode of action information follows.

1,2-Dichloropropene

Halogenated Hydrocarbon Fumigant/narcotic. Acts on primitive nervous systems (neurotodes).

Telone EC (Dow) p. 977

Telone II (Dow) p. 980

Telone II CA (Dow) p. 984

1,2-Dichloropropene + Chloropicrin

Halogenated Hydrocarbon Fumigant/narcotic. Acts on primitive nervous systems (neurotodes).

Trichloronitromethane Intensely irritating gas; used as a warning agent with fumigants.

InLine (CA) (Dow) p. 807

InLine (Dow) p. 805

Telone C-17 (Dow) p. 962

Telone C-17 CA (Dow) p. 966

Telone C-35 (Dow) p. 970

Telone C-35 CA (Dow) p. 974

2,4-D

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

HardBall (Helena) p. 1443

Unison (Helena) p. 1483

2,4-D 2-Ethylhexyl Ester

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Barrage HF (Helena) p. 1414

2,4-D 2-Ethylhexyl Ester + Fluoxypyr 1-Methylheptyl Ester

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Pyridinecarboxylic Acid Readily absorbed by roots and foliage; translocated. Epinastic bending and

twisting of stems and petioles, also stem swelling and leaf cupping. Acts as a synthetic auxin, such as IAA.

Starane+Salvo (Dow) p. 929

2,4-D Butoxethyl Ester + Triclopyr Butoxethyl Ester

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Pyridinecarboxylic Acid Readily absorbed by roots and foliage; translocated. Epinastic bending and twisting of stems and petioles, also stem swelling and leaf cupping. Acts as a synthetic auxin, such as IAA.

Crossbow (Dow) p. 684

2,4-D Dimethylamine Salt

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Opti-Amine (Helena) p. 1458

Weedar 64 (Nufarm Americas) p. 2013

2,4-D Dimethylamine Salt + Dicamba Dimethylamine Salt

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Benzolic Acid (Auxinic) Rapidly penetrates leaves and stems; translocated. Acts as a synthetic auxin, such as indoleacetic acid.

Banvel+2,4-D (Micro Flo) p. 1668

Weedmaster (BASF) p. 203

2,4-D Dimethylamine Salt + Dicamba Dimethylamine Salt + Metsulfuron Methyl

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

by wilting and death. Acts as a synthetic auxin, such as IAA.

Benzoic Acid (Auxinic) Rapidly penetrates leaves and stems; translocated. Acts as a synthetic auxin, such as indoleacetic acid.

Sulfonylurea Rapid foliar absorption but slower chlorosis and necrosis. Translocated. Inhibits acetolactate synthase (ALS) (also known as acetoxyhydroxyacid synthase (AHAS)) causing death.

Cimarron Max (DuPont) p. 1108

2,4-D Isooctyl(2-ethylhexyl)Ester + Bromoxynil Octanoate

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Nitrile Rapidly absorbed by leaves and roots; translocated. Inhibits cell wall (cellulose) synthesis.

Double Up B+D (Helena) p. 1429

2,4-D Isopropylamine Salt + Glyphosate Isopropylamine Salt

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Glycine Absorbed by foliage; translocated throughout, including roots. Growth inhibited soon after application. Inhibits EPSP synthase.

Campaign (Monsanto) p. 1775

2,4-D Triisopropanolamine Salt + Clopyralid Monoethanolamine Salt

Phenoxy-Carboxylic Acid Selective systemic; acts as a growth regulator. Salts rapidly absorbed by roots, esters by foliage. Symptoms include bending and twisting of stems, swelling and leaf cupping followed by wilting and death. Acts as a synthetic auxin, such as IAA.

Pyridinecarboxylic Acid Readily absorbed by roots and foliage; translocated. Epinastic bending and

Mode of Action (MOA) Information for Disease Control, Weed Control, and Insect Control

Disease Control products appear first, followed by Weed Control and Insect Control. The description below applies to all product category sections.

The Chemical Family appears in bold and is underlined. The description of the Mode of Action (MOA) appears to the right of the Chemical Family. Active ingredients appear indented below the Chemical Family, also in bold type (but not underlined). Products with that active appear below it in regular type.

IMPORTANT: Products listed under an active ingredient may also contain another active, which may have another mode of action. See each product's specific Mode of Action report for more details. The active ingredient may contain a component that may belong to another chemical family — again, see product's specific Mode of Action report for more details.

At the end of each product category section is an alphabetical listing of products that contain more than one mode of action for that product category. For specific information regarding which chemicals of a product belong to which chemical family (and thus have which mode of action), search for the brand name in the Brand Name Mode of Action Index.

Disease Control

Acaricide Translocated. Inhibits cell division.
Cymoxanil + Famoxadone
Tanos (DuPont) p. 1274

Acaricide Action is mainly preventative; locally systemic. Limits sporulation.
Cymoxanil
Curzate 60DF (DuPont) p. 1143

Abenzoic Preventative for certain diseases. Absorbed by foliage; systemic. Mimics the natural systemic activated resistance (SAR) systems found in many plant species.

Abenzoic-S-methyl
Actigard 50WG (Syngenta) p. 2045

Allide Systemic and translocated, moves in plant water stream. Inhibits respiration within the fungal cell.

Bosalid
Endura (BASF) p. 55
Bosalid + Pyraclostrobin
Pristine (BASF) p. 118

Allinopyrimidine A broad spectrum fungicide. Curative and preventative. Inhibits methionine biosynthesis and secretion of hydrolytic enzymes.

Cyprodinil
Vangard WG (Syngenta) p. 2468
Cyprodinil + Fludioxonil
Switch 62.5WG (Syngenta) p. 2401

Pyrimethanil
Scala SC (Bayer) p. 462

Benzamide (fungicide) Fungicidal, curative and protective. Inhibits microtubule assembly.

Mancozeb + Zoxamide
Gavel 75DF (Dow) p. 722

Benzimidazole Systemic and translocated. Absorbed by roots and leaves. Protective and curative action. Induces abnormalities in spore formation, growth and cellular multiplication by interfering with synthesis of DNA.

Thiabendazole
Mertect 340-F (Syngenta) p. 2276

Thiophanate-methyl
Thiophanate Methyl 4.5% AG (Micro Flo) p. 1742

Thiophanate Methyl 70% WSB (Micro Flo) p. 1747

Chloroacetamide Absorbed by emerging shoots; translocated. Kills seedlings before emergence. Inhibits cell division.

Propamocarb Hydrochloride
Previcur Flex (Bayer) p. 426

Cinnamic Acid Activity is systemic, curative and preventative. Inhibits sterol synthesis.

Dimethomorph
Acrobot 50WP (BASF) p. 3

Copper Causes non-specific denaturation of protein. Activity can be herbicidal, algalicidal, fungicidal or bactericidal.

Copper Hydroxide + Mefenoxam
Ridomil Gold/Copper (Syngenta) p. 2372

Dicarboximide Locally systemic. Contact, preventative, and curative action. Affects cell metabolism (DNA and RNA synthesis).

Cymoxanil + Famoxadone
Tanos (DuPont) p. 1274

Iprodione
Iprodione 4L AG (Micro Flo) p. 1701
Rovral 4 Flowable (Bayer) p. 455

Vinclorolin
Ronilan EG (BASF) p. 190

DMI (Demethylation Inhibitor) Foliar, preventative, and eradicant activity. Locally systemic. Inhibits synthesis of sterols (SI).

Triflumizole
Procure 50WS (Crompton) p. 640

Ethlenebisdithio-carbamate (EBDC) Action is non-systemic, protective. Acts by being metabolized to the isothiocyanate radical which then inactivates SH group in amino acids contained within the individual pathogen cells.

Fludioxonil + Mancozeb
Maxim MZ Potato Seed Protectant (Syngenta) p. 2274

Mancozeb
Dithane F-45 Rainshield (Dow) p. 694
Dithane M45 (Dow) p. 699

Mancozeb + Mefenoxam
Ridomil Gold MZ (Syngenta) p. 2360

Mancozeb + Zoxamide
Gavel 75DF (Dow) p. 722
Maneb + Streptomycin Sulfate
Seed Treatment For Potatoes (Helena) p. 1481

Halogenated Hydrocarbon Fumigant/narcotic. Acts on primitive nervous systems (nematodes).

1,3-Dichloropropene
Telone EC (Dow) p. 977

Telone II (Dow) p. 980
Telone II CA (Dow) p. 984

1,3-Dichloropropene + Chloropicrin
InLine (Dow) p. 805
InLine (CA) (Dow) p. 807
Telone C-35 (Dow) p. 970
Telone C-35 CA (Dow) p. 974
Telone C-17 (Dow) p. 962
Telone C-17 CA (Dow) p. 966

Imidazolinone (fungicidal) Acts as a protectant. Acts as respiratory inhibitors.

Fenamidone
Reason 500 SC (Bayer) p. 443

Isothiocyanates Form gases in moist soil for control of most living matter: weeds, nematodes, and soil fungi. Gets ring cleavage to form the major lethal breakdown product--methyl isothiocyanate (MITC).

Dazomet
Basamid (Certis) p. 581

Microbial-Bacto-Fungicide (biological fungicide) Slow-acting, preventative. Colonizes the root system and thereby competes with the disease organism.

Bacillus subtilis GB03 + Metalaxyl + PCNB
System3 Seed Treatment (Helena) p. 1482

Morpholine Foliar spray, as a preventative treatment. Acts as a sterol biosynthesis inhibitor.

Spiroxamine
Accruel (Bayer) p. 213

Neem: Clarified Hydrophobic Extract of Neem Oil Contact insecticidal/miticidal activity and preventative fungicidal activity. Causes suffocation of immature and adult insects and mites. As a fungicide, prevents germination of fungal spores; may inhibit mitochondrial respiration.

Neem Oil, Clarified Hydrophobic Extract
Trilogy (Certis) p. 600

Nicotinoid Controls chewing and sucking insects through contact and ingestion. Acts on central nervous system, causing irreversible blockage of certain critical receptors.

Difenoconazole + Fludioxonil + Mefenoxam + Thiamethoxam

Helix Lite (Syngenta) p. 2254
Helix XTRA (Syngenta) p. 2256

Mefenoxam + Thiamethoxam

Platinum Ridomil Gold (Syngenta) p. 2299

Organophosphate Systemic; contact and stomach action; limited translocation. Causes rapid twitching of involuntary muscles, followed by paralysis

BASF Corporation

**Agricultural Products
U.S. Crop Protection Products**
26 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709-3528
(919) 547-2000

Acrobat® 50WP

fungicide

For Use in the Management of Late Blight in Potatoes and Field Grown Tomatoes

ACTIVE INGREDIENT:

Dimehosphor

50.0%

INERT INGREDIENTS:

..... 50.0%

TOTAL:

EPA Reg. No. 241-410

EPA Est. No. 100.0%

U.S. Patent No. 5,952,496

KEEP OUT OF REACH OF CHILDREN

CAUTION!/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.) In case of an emergency endangering life or property involving this product, call day or night 800-832-HELP.

See inside for Additional Precautionary Statements

BASF Corporation

26 Davis Drive

Research Triangle Park, NC 27709

FIRST AID

| | |
|------------------------|---|
| If swallowed | <ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person |
| If on skin or clothing | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

Personal Protection Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride
- shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product when wind conditions favor drift.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear:

- coveralls
- chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.
- shoes plus socks

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

Storage: Store in a cool, well-ventilated area. DO NOT allow to become overheated in storage. Keep container closed when not in use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF FUNGICIDE APPLICATION. Do not apply this product through any type of irrigation system unless the label instructions on chemigation are followed. See below for Chemigation Use Directions.

ACROBAT 50WP can be used in a preventative spray program to manage late blight in potatoes and field grown tomatoes. ACROBAT 50WP also can be used to manage tuber blight in potatoes. Maximum results can only be achieved by thorough plant coverage. ACROBAT 50WP must be used in accordance with this label. It is recommended that this product be used within an Integrated Pest Management Program.

In order to reduce the risk of the development of fungicide resistance, ACROBAT 50WP must be used as a tank-mix with fungicides, EXCEPT MEFENOXAM OR METALAXYL ON POTATOES OR MEFENOXAM ON TOMATOES, registered for late blight or tuber blight control.

Carefully read, understand, and follow all directions and precautions.

Disease pressure, plant growth rate, and environmental conditions will determine the length of the spray interval and the rate of ACROBAT 50WP. Consult local late blight advisory system recommendations to determine the predicted disease pressure and the associated application rates and intervals. Sprayers should be properly calibrated before application. Determine the size of the area to be sprayed and the output rate to determine the quantities of ACROBAT 50WP and water needed for accurate application. Apply material with adequate spray pressure, water volume, and proper nozzle arrangement to provide full coverage.

MIXING INSTRUCTIONS

Fill the spray tank until it is approximately $\frac{1}{4}$ full with clean water. Slowly, add ACROBAT 50WP to the spray tank while agitating. Agitation must be engaged prior to the addition of the product to obtain a complete and uniform mixture of ACROBAT 50WP.

Limit amount of spray mixture prepared to that needed for immediate use.

Mixing Order:

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) Products in PVA bags: Place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 3) Water-dispersible products: (wettable powders including ACROBAT 50WP, dry flowables, suspension concentrates, or suspo-emulsions)
- 4) Water-soluble products
- 5) Emulsifiable concentrates: (oil concentrate or methylated seed oil when applicable)
- 6) Water-soluble additives: (ammonium sulfate or urea ammonium nitrate when applicable)
- 7) Remaining quantity water

Maintain maximum constant agitation during application. Thorough agitation is required if the mixture is allowed to stand for a prolonged period of time.

COMPATIBILITY

The tank mixing behavior of this fungicide with other pesticides has not been fully investigated. If tank mixing with other pesticides is desirable, conduct a jar test with rates and volumes of carrier typically used in an agricultural application. Look for signs of separation, globules, sludge, flakes or other precipitates. DO NOT tank mix with the other pesticide if the jar test with ACROBAT 50WP has indicated incompatibility.

TANK MIXES WITH FUNGICIDES

DO NOT apply ACROBAT 50WP alone. ACROBAT 50WP must be used in a tank-mix with fungicides, EXCEPT MEFENOXAM OR METALAXYL ON POTATOES OR MEFENOXAM ON TOMATOES registered for late blight or tuber blight control. Potential tank mix partner fungicides include but are not limited to Polyram, EBDC fungicides or triphenyltin hydroxide. Refer to the respective tank-mix partner labeling for rates, methods of applications, proper timing, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. Do not use a pesticide product which contains a prohibition against tank mixing.

AERIAL SPRAY APPLICATIONS

Prior to aerial application, check the aircraft for uniformity of spray pattern, spray swath width and output. If hollow cone or whirplate nozzles are used, it is recommended

that they be positioned straight down or slightly backwards. When using nozzles that produce relatively straight streams (e.g., D-series orifice with no core), the recommended positioning is straight back or slightly down from back. Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. If foliage is dense, use an output that will ensure optimum fungicide penetration. Spray swaths should be marked using flaggers who are in completely enclosed vehicles, by counting rows, or by using some other marking device.

DO NOT apply when weather conditions favor drift.

CHEMIGATION USE DIRECTIONS

ACROBAT 50WP can be applied prior to the onset of disease infection on a regular protectant spray schedule, not an irrigation schedule. Chemigation applications must be made on a 5-10 day spray schedule depending on disease pressure and environmental conditions. Consult local late blight advisory system recommendations to determine the predicted disease pressure and the associated application rates and intervals. Chemigation applications may need to be supplemented with ground or aerial applications if irrigation cycles are less frequent than what is recommended on the label to obtain optimum control. Apply ACROBAT 50WP fungicide only through sprinkler irrigation systems including center-pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems. DO NOT apply product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

The irrigation system must be correctly calibrated (with water only) to ensure that the recommended rate of ACROBAT 50WP is applied.

DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system should have properly working nozzles providing the recommended output and pattern. The chemigation system should also be free of leaks.

Overhead Sprinkler Irrigation System Requirements

1. The system must contain a functional check valve; vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

DIRECTIONS FOR APPLICATION

Maximum benefit of ACROBAT 50WP from foliar applications requires thorough coverage of the plant. To obtain thorough coverage of foliage, use proper spray pressure and minimum of 20 gallons per acre.

| Crop | Target Disease | Use Rate: Oz Product/ Acre/ Application | General Recommendations | Restrictions |
|-------------------|--|--|--|--|
| Potato | Late Blight (<i>Phytophthora infestans</i>) | 4-6.4 | <p>Applications should begin prior to the onset of disease infection and based on the recommendation of the local late blight advisory system. Apply on 5-10 day application intervals. Disease pressure and environmental conditions should determine application rates and spray intervals. Use higher rates and shorter spray intervals when disease pressure is higher. Consult local late blight advisory system recommendations to determine the predicted levels of disease pressure and the associated application rates and intervals.</p> <p>Apply spray to obtain thorough and complete plant coverage.</p> <p>ACROBAT 50WP may be applied after vine kill.</p> | <p>DO NOT exceed 32 oz per acre per growing season.</p> <p>DO NOT use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>DO NOT apply within 4 days of harvest in all states.</p> |
| | Tuber Blight (<i>Phytophthora infestans</i>). MANAGEMENT OR SUPPRESSION | 6.4 | <p>When used according to label recommendations for Late Blight control, ACROBAT 50WP can also reduce tuber blight.</p> <p>To maximize activity against tuber blight, begin fungicide applications before disease onset occurs and in accordance with local late blight advisory system recommendations. Also, maintain regular application schedules and obtain thorough plant coverage.</p> <p>ACROBAT 50WP may be applied after vine kill.</p> | |
| Tomato—Non-staked | Late Blight (<i>Phytophthora infestans</i>) | 6.4 | <p>Begin applications when plants are 4-6 inches high and prior to the onset of disease infection. Apply on a 5-10 day spray schedule. Prior to the onset of conditions favoring infection, apply every 7-10 days. When environmental conditions have been conducive for diseases, or when disease has been detected within the field or nearby, a 5-7 day schedule is recommended.</p> <p>Apply spray to obtain thorough and complete plant coverage.</p> | <p>DO NOT exceed 32 oz per acre per growing season.</p> <p>DO NOT use less than 20 gallons of water per acre for ground applications and 5 gallons per acre for aerial applications.</p> <p>DO NOT apply within 4 days of harvest in all states.</p> |

| Crop | Target Disease | Use Rate: Oz Product/ Acre/ Application | General Recommendations | | Restrictions |
|---------------|--|--|--|--|--------------|
| | | | | | |
| Tomato—Staked | Late Blight (<i>Phytophthora infestans</i>) | 6.4 | <p>Begin applications when plants are 4-6 inches high and prior to the onset of disease infection. Apply on a 5-10 day spray schedule. Prior to the onset of conditions favoring infection, apply every 7-10 days. When environmental conditions have been conducive for diseases, or when disease has been detected within the field or nearby, a 5-7 day schedule is recommended.</p> <p>For ground application use a minimum of 20 gallons of spray volume and increase the spray volume as the plants grow during the season. Spray volume should be proportional to the amount of plant tissue to be covered; such that 100 gallons of spray per acre is used on mature plants.</p> <p>For aerial applications, follow the directions for non-staked tomatoes above.</p> <p>Apply spray to obtain thorough and complete plant coverage.</p> | <p>DO NOT apply more than 32 oz per acre per growing season.</p> <p>DO NOT use less than 20 gallons of water per acre for ground applications.</p> <p>DO NOT apply within 4 days of harvest in all states.</p> | |

ADDITIONAL RESTRICTIONS

To reduce the possibility of developing *Phytophthora infestans* resistance to both ACROBAT 50WP and to mefenoxam, or metalaxyl products, the tank mixing of ACROBAT 50WP with any of these products is **STRICTLY PROHIBITED**.

Phytophthora infestans strains have developed resistance to some crop protection products after repeated use. Since the development of resistance cannot be predicted, ACROBAT 50WP should always be used in a resistance management program. Tank mixing and thorough spray coverage are necessary to minimize the development of *Phytophthora infestans* strains with resistance to ACROBAT 50WP.

ROTATIONAL CROP GUIDE LINES

After making the last ACROBAT 50WP application, rotational crops may be planted at the following intervals:

1. Any time

Potatoes

Tomatoes

2. One month

Barley

Tobacco

Oats

Wheat

Leafy vegetables, such as head lettuce, leaf lettuce, spinach, and celery

Brassica vegetables, such as broccoli, cabbage, and cauliflower

Root/tuber and bulb vegetables, such as carrot, onion, radish, and sugar beet

3. Seven months

Alfalfa

Beans

Clover

Corn

Peas

Rice

Sorghum

Soybeans

4. Twelve months

All other crops

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

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BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF ACROBAT 50WP. In no case shall BASF or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

USES WITH OTHER PRODUCTS (TANK MIXES)

If this product is used in combination with any other product except as specifically recommended in writing by BASF, then BASF shall have no liability for any loss, damage, or injury arising out of its use in any such combination not so specifically recommended. If used in a combination recommended by BASF, the liability of BASF shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the BASF product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the product.

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

VID 9.24.04

Apogee®

plant growth regulator

For use on apples, grass grown for seed, peanuts and pears

Active Ingredient:

Prohexadione calcium [calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate]

27.5%

Other Ingredients:

72.5%

Total 100.0%

EPA Reg. Number 7969-188

EPA Est. Number

KEEP OUT OF REACH OF CHILDREN.**CAUTION**

See inside booklet for complete First Aid, Precautionary Statement, Directions For Use, and Conditions of Sale and Warranty.

Product of Japan; formulated in U.S. with U.S. and imported ingredients

BASF Corporation

26 Davis Drive

Research Triangle Park, North Carolina 27709

FIRST AID

| | |
|------------------------|---|
| If in eyes | <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| If on skin or clothing | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

PRECAUTIONARY STATEMENTS**Hazards to Humans and Domestic Animals**

Caution. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on the EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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